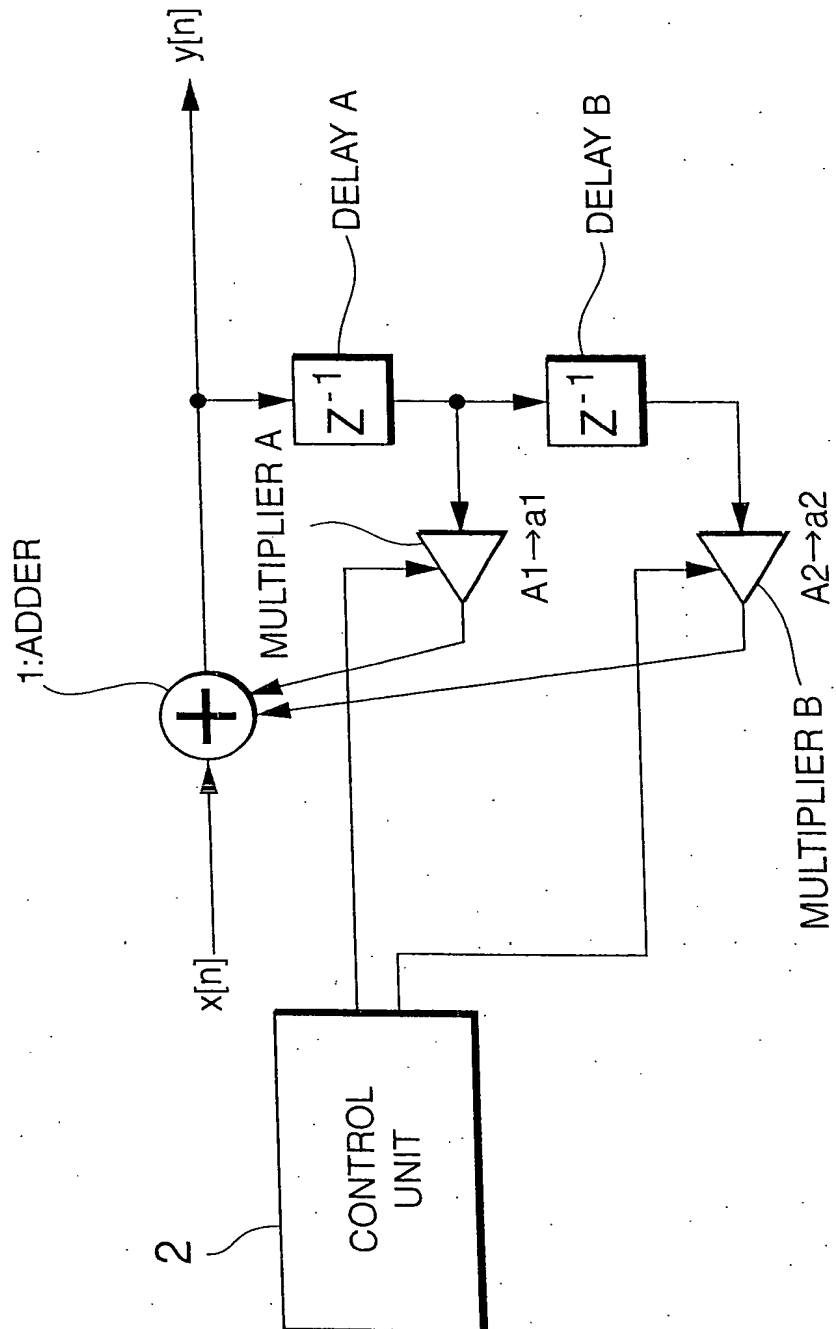
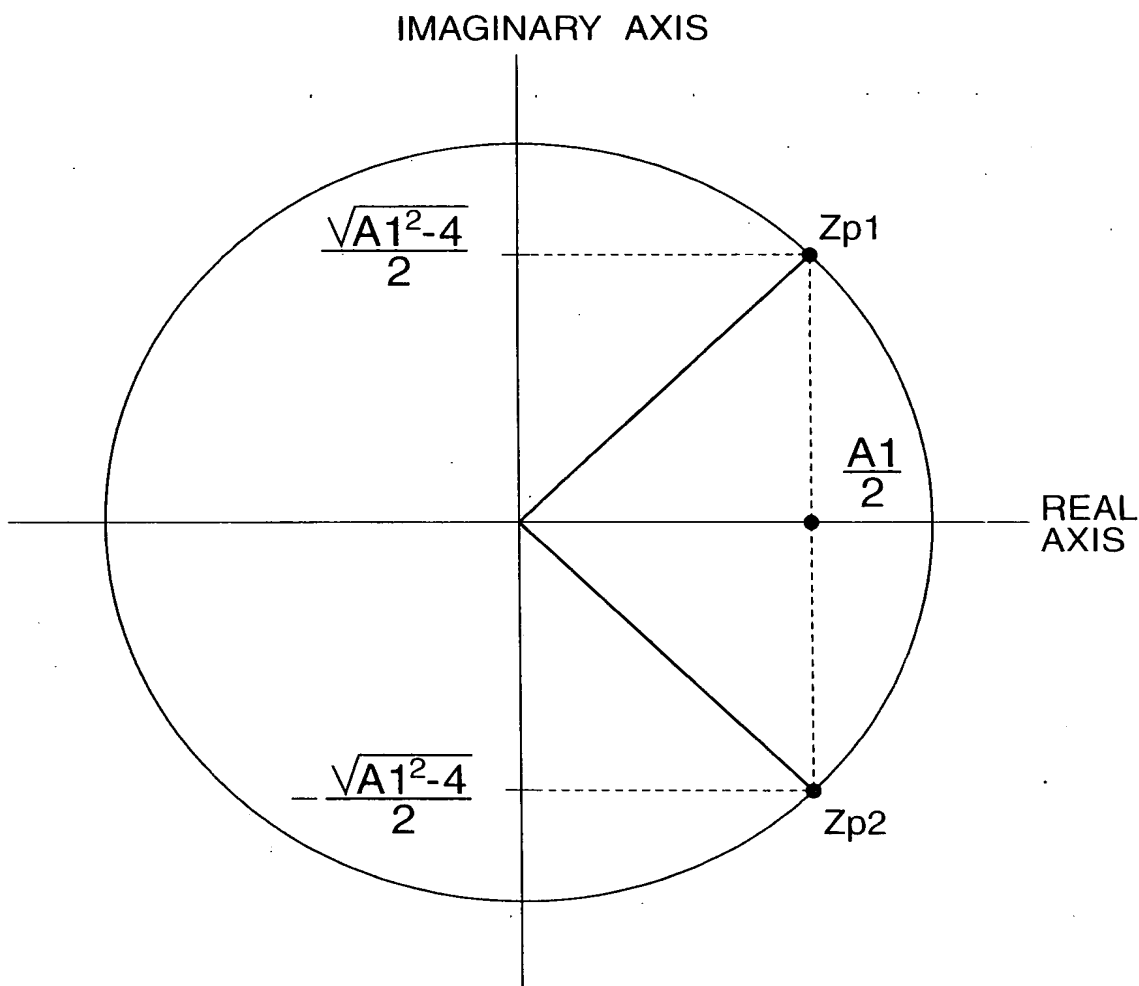


Fig.1



**Fig.2**



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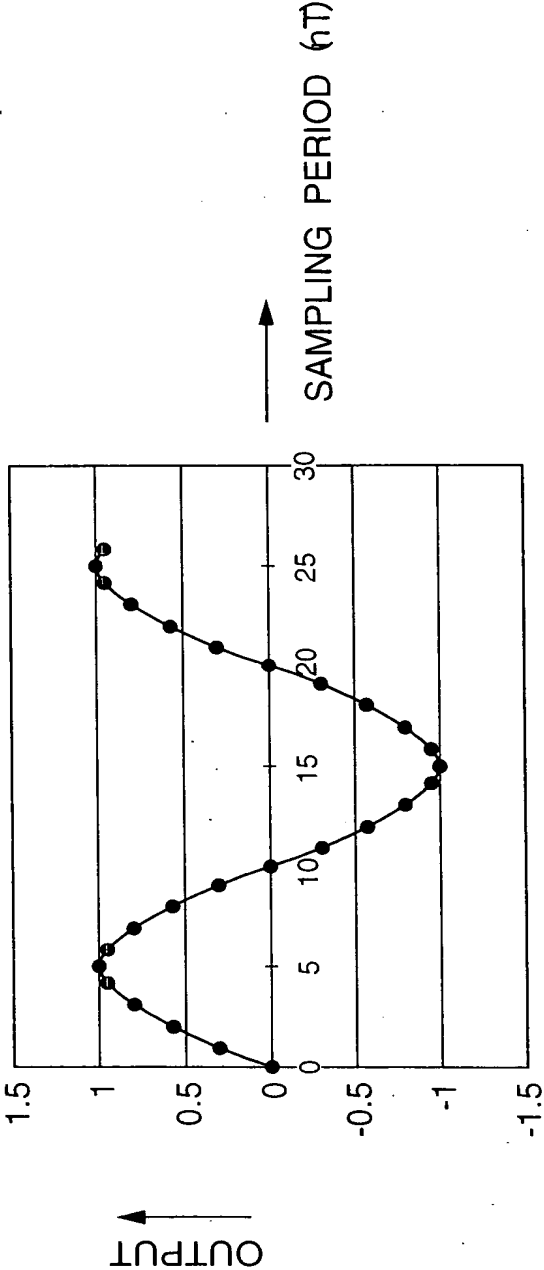
**Fig.3**

$F_0$  (OUTPUT FREQUENCY) 400  
 $F_s$  (SAMPLING FREQUENCY) 8000

$A_1=2\cos(\omega T)$  1.902113033  
 $A_2=1$  1  
 $B_0=\sin(\omega T)$  0.309016994

SAMPLE NO.	$y[n]=A_1*y[n-1]-A_2*y[n-2]$	$y[n-1]$	$y[n-2]$
0	0	0	0
1	0.309016994	0	0
2	0.587785252	0.309016994	0
3	0.809016994	0.587785252	0.309016994
4	0.951056516	0.809016994	0.587785252
5	1	0.951056516	0.809016994
6	0.951056516	1	0.951056516
7	0.809016994	0.951056516	1
8	0.587785252	0.809016994	0.951056516
9	0.309016994	0.587785252	0.809016994
10	-1.88738E-15	0.309016994	0.587785252
11	-0.309016994	-1.88738E-15	0.309016994
12	-0.587785252	-0.309016994	-1.88738E-15
13	-0.809016994	-0.587785252	-0.309016994
14	-0.951056516	-0.809016994	-0.587785252
15	-1	-0.951056516	-0.809016994
16	-0.951056516	-1	-0.951056516
17	-0.809016994	-0.951056516	-1
18	-0.587785252	-0.809016994	-0.951056516
19	-0.309016994	-0.587785252	-0.809016994
20	2.88658E-15	-0.309016994	-0.587785252
21	0.309016994	2.88658E-15	-0.309016994
22	0.587785252	0.309016994	2.88658E-15
23	0.809016994	0.587785252	0.309016994
24	0.951056516	0.809016994	0.587785252
25	1	0.951056516	0.809016994
26	0.951056516	1	0.951056516

Fig.4



**Fig.5**

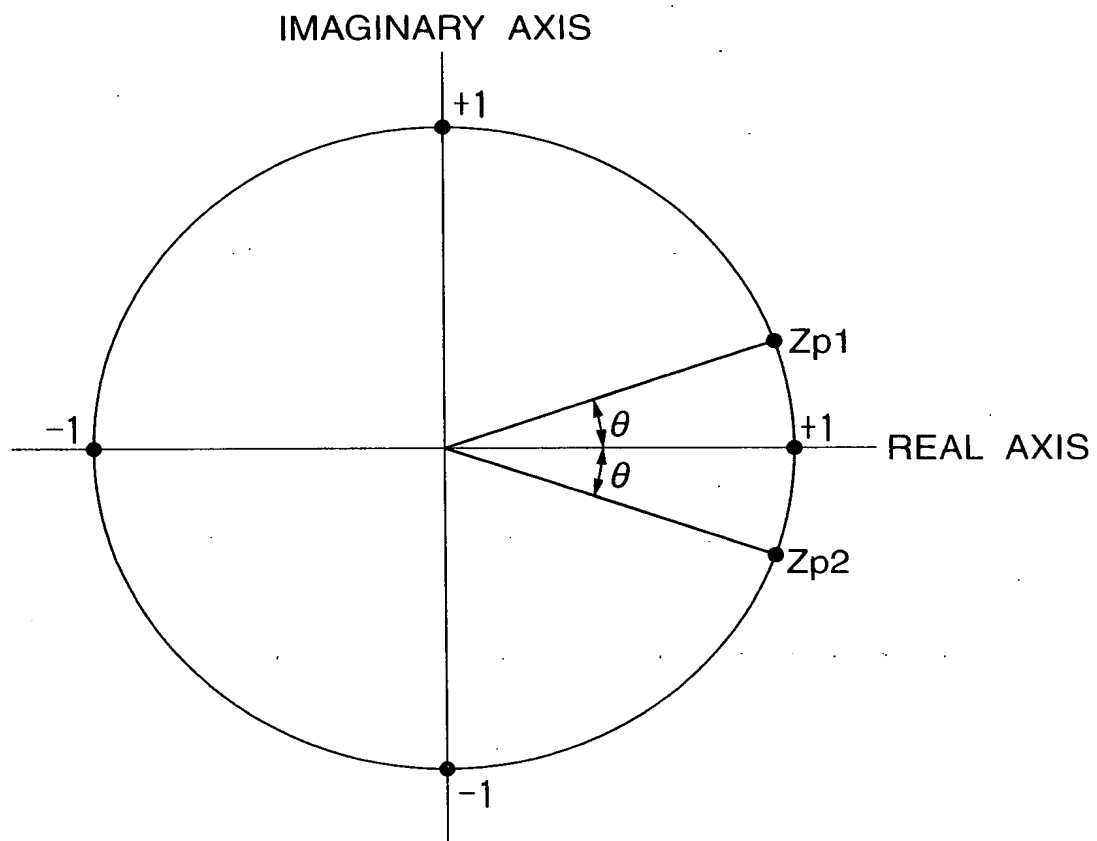
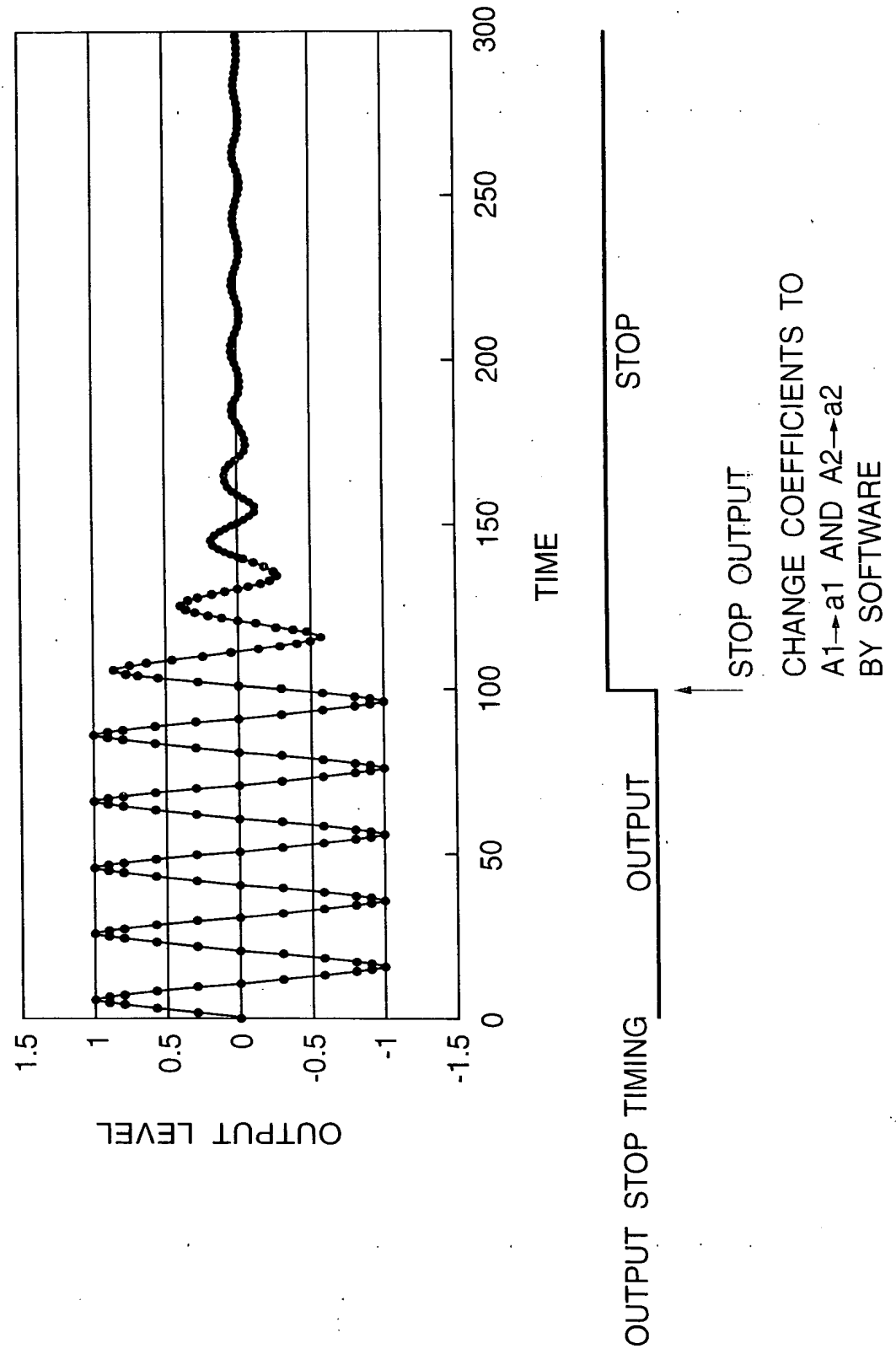


Fig.6



**Fig.7**

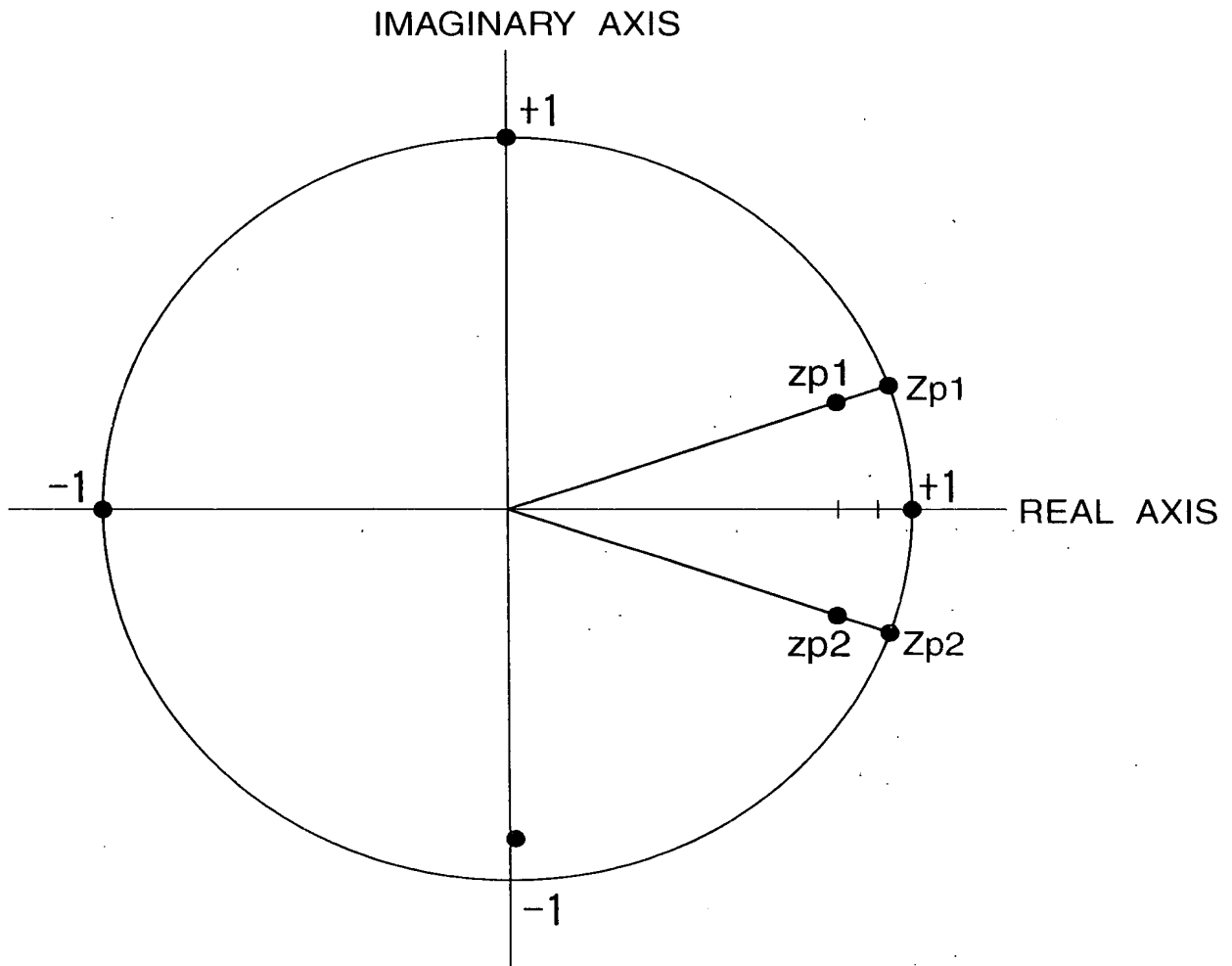
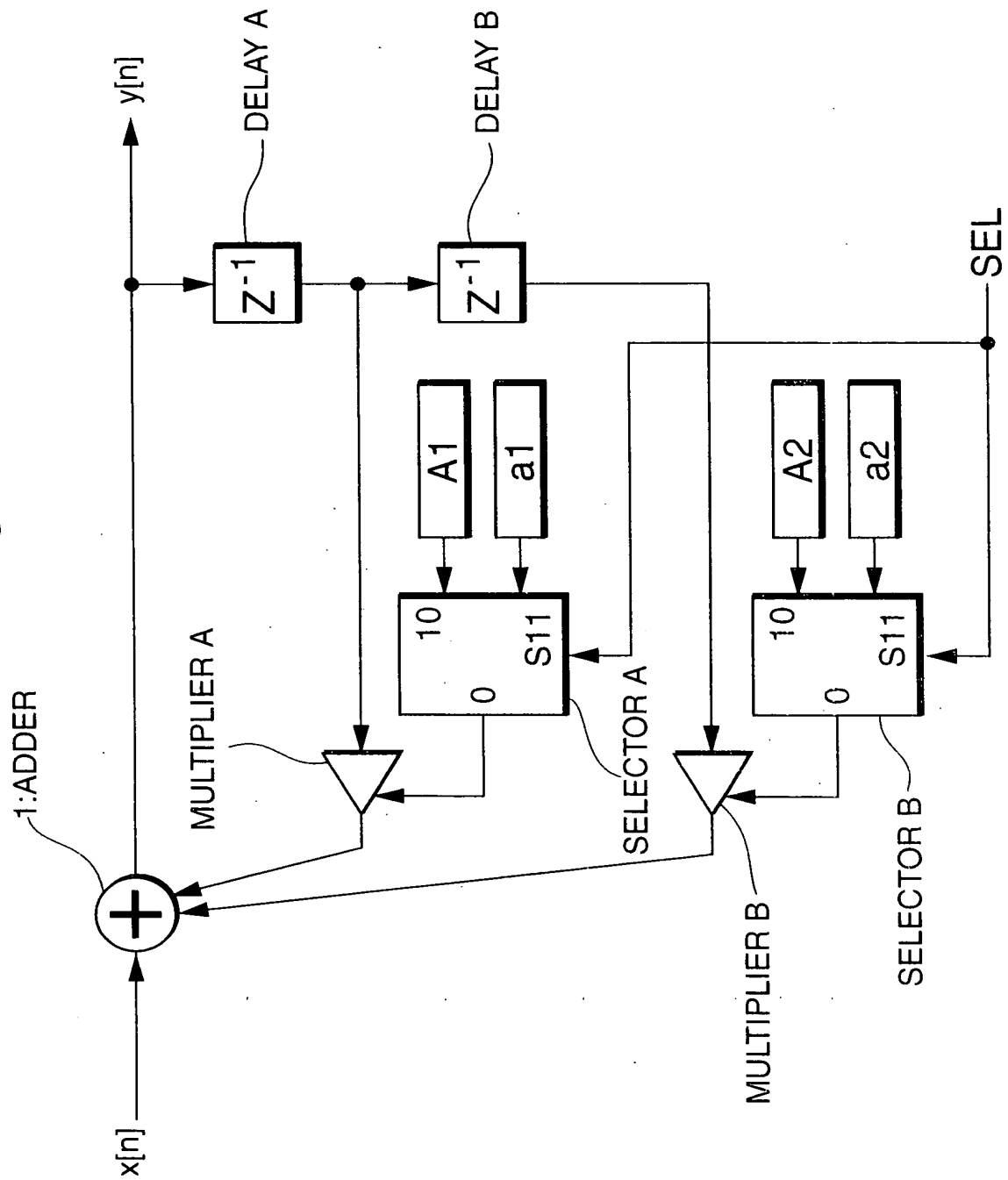


Fig.8





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Fig. 9

